

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
12 February 2004 (12.02.2004)

PCT

(10) International Publication Number  
**WO 2004/014038 A1**

(51) International Patent Classification<sup>7</sup>: **H04L 29/06**

(21) International Application Number:  
PCT/IB2003/002943

(22) International Filing Date: 24 July 2003 (24.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
102 34 643.7 29 July 2002 (29.07.2002) DE  
03100305.6 12 February 2003 (12.02.2003) EP

(71) Applicant (for DE only): **PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH** [DE/DE]; Stein-  
damm 94, 20099 Hamburg (DE).

(71) Applicant (for all designated States except DE, US):  
**KONINKLIJKE PHILIPS ELECTRONICS N.V.**  
[NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven  
(NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BUDDE, Wolf-**  
**gang, Otto** [DE/DE]; c/o Philips Intellectual Property &

Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE).  
**SCHREYER, Oliver** [DE/DE]; c/o Philips Intellectual  
Property & Standards GmbH, Weissshausstr. 2, 52066  
Aachen (DE). **LELKENS, Armand** [NL/DE]; c/o Philips  
Intellectual Property & Standards GmbH, Weissshausstr. 2,  
52066 Aachen (DE).

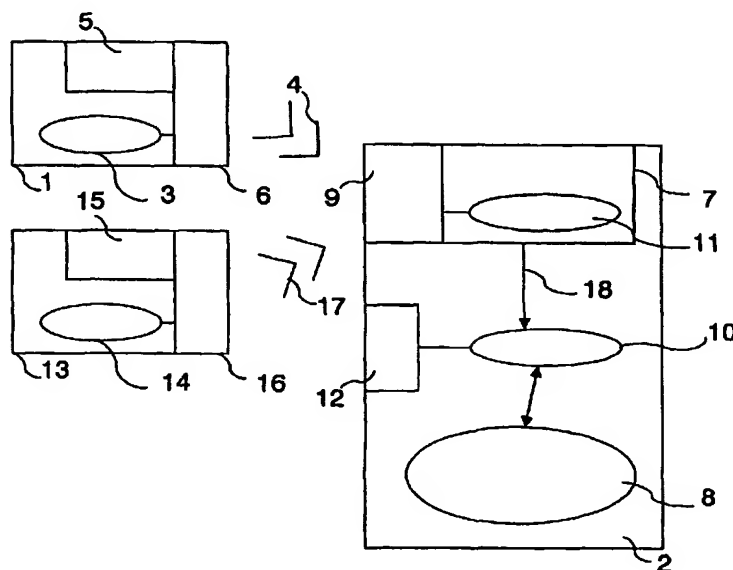
(74) Agent: **VOLMER, Georg**; Philips Intellectual Property &  
Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,  
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,  
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,

[Continued on next page]

(54) Title: SECURITY SYSTEM FOR APPARATUSES IN A NETWORK



(57) **Abstract:** The invention relates to a security system for networks, comprising a first portable unit (1) with a memory (3) for storing a worldwide unambiguous key record (4) provided for short-range information transmission of the key record (4). At least one apparatus (2) of the network is provided with a receiving unit (7) comprising a receiver (9) for receiving the key record (4) and an evaluation component (11) of the apparatus for storing, processing and/or passing on the key record (4) or a part of the key record to a second component. Due to the key record, the apparatuses in the network acquire a secret shared key by means of which the encryption and decryption of the transmitted useful data and/or the authentication is performed.

**WO 2004/014038 A1**



SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*